

Amendments to the Claims

Please amend the claims as shown below in the complete listing of claims:

1. (Canceled)

2. (Currently Amended) In a liquid extraction cleaner comprising:

a housing having front and rear portions;

a dirty fluid extraction system mounted to the housing including:

a suction nozzle;

an air-liquid separator for separating air from liquid and debris;

a recovery tank in fluid communication with the suction nozzle for

collecting recovered liquid and debris; and

a vacuum source in fluid communication with the suction nozzle and the recovery tank for drawing liquid and debris through the suction nozzle and for depositing them into the recovery tank;

a cleaning fluid dispensing system mounted to the housing including:

a cleaning fluid supply tank;

a fluid distributor connected to the cleaning fluid supply tank for distributing cleaning fluid onto the surface to be cleaned; and

a rearwardly extending pocket at the rear portion thereof, wherein the recovery tank is removably received at least partially within the pocket;

the improvement comprising:

the housing has ~~A liquid extraction cleaner according to claim 1 wherein the housing has~~ an integral handle between the front and rear portions thereof for carrying and operating the cleaner.

3. (Currently Amended) TheA liquid extraction cleaner according to claim 2 wherein the cleaning fluid supply tank and the recovery tank have interengaging releasable fasteners to removably mount the cleaning fluid supply tank to the recovery tank.

4. (Currently Amended) TheA liquid extraction cleaner according to claim 2 wherein the recovery tank further comprises an inlet duct and an outlet duct.

5. (Currently Amended) TheA liquid extraction cleaner according to claim 2 wherein the recovery tank further comprises a sealable opening that is closed with a cap to seal the opening, the cap ~~has~~having an outward- protrusion to facilitate removal of the cap from the opening and the cap protrusion matingly aligns with a recess in the housing when the recovery tank is properly seated within the housing pocket.

6. (Currently Amended) TheA liquid extraction cleaner according to claim 2 wherein the recovery tank further comprises at least one flange and the cleaning solution supply tank has a channel that slidably receives the flange for removably mounting the cleaning solution supply tank to the recovery tank.

7. (Currently Amended) TheA liquid extraction cleaner according to claim 6 wherein the at least one flange is on a top portion of the recovery tank and the cleaning solution supply tank channel is on a lower portion of the cleaning solution supply tank for removably mounting the cleaning solution tank to the recovery tank.

8. (Currently Amended) TheA liquid extraction cleaner according to claim ~~4~~2 wherein the cleaning solution supply tank and the housing have interengaging releasable fasteners that removably mount the cleaning solution supply tank to the housing.

9. (Currently Amended) In a liquid extraction cleaner comprising:

a housing having front and rear portions;

a dirty fluid extraction system mounted to the housing including:

a suction nozzle;

an air-liquid separator for separating air from liquid and debris;

a recovery tank in fluid communication with the suction nozzle for

collecting recovered liquid and debris; and

a vacuum source in fluid communication with the suction nozzle and the recovery tank for drawing liquid and debris through the suction nozzle and for depositing them into the recovery tank;

a cleaning fluid dispensing system mounted to the housing including:

a cleaning fluid supply tank; and

a fluid distributor connected to the cleaning fluid supply tank for distributing cleaning fluid onto the surface to be cleaned; and

the housing has a rearwardly extending pocket at the rear portion thereof, wherein the recovery tank is removably received at least partially within the pocket; A liquid extraction cleaner according to claim 1 and further comprising

the improvement comprising:

at a forward portion of the housing a cartridge that is removably mounted to the front portion of the housing, the removable cartridge further comprises at least one rotatable agitation brush that is driven by a drive motor and wherein the rotation direction of the at least one brush is determined by the orientation of the agitation housing cartridge in the housing.

10. (Currently Amended) The A liquid extraction cleaner according to claim 9 and further comprising at least two rotatable brushes.

11. (Currently Amended) ~~The~~A liquid extraction cleaner according to claim 10 wherein the at least two- rotatable brushes are configured to rotate in the same direction.

12. (Currently Amended) ~~The~~A liquid extraction cleaner according to claim 10 wherein the at least two ~~rotating~~ rotatable brushes are configured to rotate in different directions.

13. (Currently Amended) ~~The~~A liquid extraction cleaner according to claim 9 wherein the orientation of the ~~agitation housing~~ cartridge to the housing determines the rotational speed of the at least one brush.

14. (Currently Amended) ~~The~~A liquid extraction cleaner according to claim 9 and further comprising a clutch mechanism between the brush and the drive motor to disconnect the drive motor from the brush when the brush resistance exceeds a predetermined torque.

15. (Currently Amended) ~~The~~A liquid extraction cleaner according to claim 14 wherein the clutch mechanism comprises a plurality of resilient fingers connected to one of the drive motor and the brush and that extend generally radially and a ring mounted to the other of the drive motor and the brush and with a plurality of indentations that receive the resilient fingers.

16. (Currently Amended) ~~The~~A liquid extraction cleaner according to claim ~~1~~2 wherein the vacuum source further comprises a fan chamber defined in part by the housing.

17. (Currently Amended) ~~The~~A liquid extraction cleaner according to claim 16 wherein the vacuum source comprises an impeller to create working air flow and a motor for driving the impeller; the impeller has an inlet opening between the motor and the impeller, and working air from the vacuum source is delivered to the impeller inlet between the motor and the impeller.

18-20. (Canceled)

21. (Currently Amended) In a liquid extraction cleaner comprising:

a housing having front and rear portions;

a dirty fluid extraction system including:

a suction nozzle;

an air-liquid separator for separating air from liquid and debris;

a recovery tank in fluid communication with the suction nozzle for

collecting recovered liquid and debris; and

a vacuum source in fluid communication with the suction nozzle and the recovery tank for drawing liquid and debris through the suction nozzle and for depositing them into the recovery tank; and

a cleaning fluid dispensing system including:

a cleaning fluid supply tank; and

a fluid distributor connected to the cleaning fluid supply tank for distributing cleaning fluid onto the surface to be cleaned;

the improvement comprising:

~~A liquid extraction cleaner according to claim 20~~ wherein the recovery tank further comprises at least one flange and the cleaning solution supply tank has a channel that slidably receives the flange to removably mount the cleaning solution supply tank to the recovery tank.

22. (Currently Amended) TheA liquid extraction cleaner according to claim 21 wherein the at least one flange is on a top portion of the recovery tank and the cleaning solution supply tank channel is on a lower portion of the cleaning solution supply tank to removably mount the cleaning solution supply tank to the recovery tank.

23. (Currently Amended) TheA liquid extraction cleaner according to claim ~~20~~21 wherein the cleaning solution supply tank and the housing have interengaging releasable fasteners that removably mount the cleaning solution supply tank to the housing.

24. (Currently Amended) ~~The~~A liquid extraction cleaner according to claim ~~20~~21 wherein the recovery tank can be removed from the housing with or without the cleaning solution supply tank attached thereto.

25. (Currently Amended) ~~The~~A liquid extraction cleaner according to claim- ~~20~~21 wherein the cleaning solution supply tank can be removed from the recovery tank with the recovery tank mounted to the housing.

26. (Currently Amended) In a liquid extraction cleaner comprising:
a housing having front and rear portions;
a dirty fluid extraction system including:
a suction nozzle;
an air-liquid separator for separating air from liquid and debris;
a recovery tank in fluid communication with the suction nozzle for collecting recovered liquid and debris; and
a vacuum source for drawing liquid and debris through the suction nozzle and for depositing them into the recovery tank;
a cleaning fluid dispensing system including:
a cleaning fluid supply tank; and
a fluid distributor connected to the cleaning fluid supply tank for distributing cleaning fluid onto the surface to be cleaned;
the improvement comprising:
the vacuum source comprises an impeller to create a working air flow and a motor for driving the impeller; the impeller has an inlet opening between the motor and the impeller, and wherein- working air from the vacuum source is delivered to the impeller from the inlet opening between the motor and the impeller.

27. (Currently Amended) ~~The~~A liquid extraction cleaner according to claim 26 wherein the impeller has an outlet opening that is positioned distal to the motor.

Serial No. 10/707,212
Filed: 11/26/03
Page 10 of 16

Examiner: Theresa T. Snider
Group Art Unit: 1744

28. (Currently Amended) TheA liquid extraction cleaner according to claim 27 and further comprising a fan chamber that is formed in part by the housing.

29. (Currently Amended) TheA liquid extraction cleaner according to claim 28 and further comprising an exhaust conduit having a vent opening formed in part by the housing.